

## 32-6831: LDHA, E.Coli Active

**Application :** Functional Assay

**Alternative Name :** LDH-A, GSD11, LDH1, LDHM, PIG19, EC 1.1.1.27, lactate dehydrogenase M, LDH-M, LDH-1, L-lactate dehydrogenase A chain, LDH muscle subunit, Renal carcinoma antigen NY-REN-59, Cell proliferation-inducing gene 19 protein, LDHA.

### Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

D-lactate dehydrogenase or LdhA is an enzyme, part of the D-lactate dehydrogenase protein family. LDHA is a cytochrome that enhances the catalyzation of D-lactate dehydrogenase LdhA reaction. This enzyme has 2 substrates ((D) -lactate & ferricytochrome c), thus, it has 2 end products (pyruvate & ferrocytochrome c).

LDHA E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 353 amino acids (1-329) and having a molecular mass of 39.1 kDa. LDHA E.Coli is fused to a 24 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** LDHA E.Coli protein (1mg/ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), containing 100mM NaCl and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSHMKLAVY STKQYDKKYL QQVNESFGFE LEFFDFLLTE  
KTAKTANGCE AVCIFVNDG SRPVEELKK HGVKYIALRC AGFNNVDLDA AKELGLKVVR VPAYDPEAVA  
EHAIGMMMTL NRRIHAYQR TRDANFSLEG LTGFTMYGKT AGVIGTGKIG VAMLRILKGF GMRLAFDPY  
PSAAALELGV EYVDLPTLFS ESDVISLHCP LTPENYHLLN EAAFEQMKNG VMIVNTSRGA LIDSQAIEA  
LKNQKIGSLG MDVYENERDL FFEDKSNDVI QDDVFRRLSA CHNVLFTHGQ AFLTAEALTS ISQTTLQNLS  
NLEKGETCPN ELV

### Application Note

Specific activity is > 200unit/mg. 1 unit converts 1.0 umole of pyruvate to L-lactate and beta-NAD per minute at pH 7.5 at 37°C